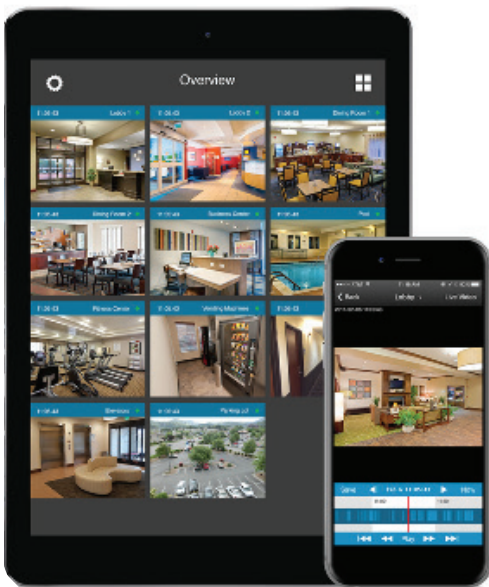# 11 Reasons Why Video Surveillance is Moving to the Cloud

Comparison of VSaaS vs. Internet-Connected Security Camera Systems

Eagle Eye Bridge

Questions?

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What is VSaaS?

VSaaS or **Video Surveillance as a Service** refers to a fully hosted, cloud-based video management system, distributed across multiple data centers in several European countries.

This service typically includes video recording, storage, remote viewing, management alerts, cybersecurity and more.

93 percent of businesses have now adopted cloud solutions. Cloud technology advances and the increase in available bandwidth makes VSaaS - also known as cloud video surveillance - very attractive.

This document highlights **11 key differences and benefits** between the "VSaaS" cloud-based video management system (VMS) and a traditional internet-connected DVR (recorder) or a Video Management software (which is installed on one or more local servers).

Think of it as a checklist that will help you achieve your goals in the field of Internet Security, Flexibility and Functionality.

1. THE DISADVANTAGES OF LOCAL HARDWARE AND STORAGE

A traditional local recorder or server with software licenses

Installing a traditional system is not an easy process. You need to install the operating system software, configure your router, set up storage servers, and install the application software. And all this on location.

Cloud-based VMS/VSaaS

It is very easy to work with a cloud-based system. You connect the Bridge and the cameras are automatically added. All other settings are done remotely, wherever you want.

2. SYSTEM SUPPORT

A traditional local recorder or server with software licenses

It is a manually intensive process to support and maintain the hardware, software, firmware and configuration updates on site. Actually, updates should always be performed automatically by the software vendor.

Cloud-based VMS/VSaaS

Updates are automatically performed on our present Bridge. You are assured that the Bridge is fully up to date with the latest features. The update process is also shared with you.

3. PAY AS YOU USE

A traditional local recorder or server with software licenses

In addition to the one-off hardware costs and higher installation costs, it is important to note that as the number of cameras increases, local storage increases more than proportionally.

Cloud-based VMS/VSaaS

The "Video Surveillance as a Service" model has predictable monthly operating costs. It grows together with your organization and the storage gives flexibility per camera as you wish.

4. TOTAL COST OF OWNERSHIP: FROM CAPEX TO OPEX

A traditional local recorder or server with software licenses

The ongoing costs include:
- An annual maintenance fee
- Router configuration
- System configuration
- Operating system backup
- OS security patches
- Remote network access
- IT-staff time
- Space
- Power
- Tampering repairs
- Training staff for retrieval
- SW update installation
- PC client SW install/upgrades

Cloud-based VMS/VSaaS

The initial costs are low. When all costs are included, ongoing monthly subscription fees are lower due to the economies of scale of the shared cloud infrastructure and support.

There is only functional time left, the operational time is taken over by the Cloud service.

5. FLEXIBILITY IN VIDEO STORAGE

A traditional local recorder or server with software licenses

A traditional DVR, NVR or VMS will store the video on-site. The storage retention (duration of storage) is limited, as you are limited by the hardware capacity you chose when you bought and installed the system. If you want to increase the resolution of the camera, more cameras or the retention period, you will need to purchase additional or replacement hardware, which will also need to be reconfigured.

Cloud-based VMS/VSaaS

Advanced cloud systems offer a flexible combination of storage in the cloud. You always have the same quick access to the videos, no matter where the video is viewed or stored.

You can increase the retention period or the resolution immediately, without having to adjust anything to your existing hardware. Because cloud systems use large shared cloud infrastructure for video storage, they offer enormous economies of scale and flexibility.

6. ADD AND MANAGE CAMERAS

A traditional local recorder or server with software licenses

The local recorder has a limited choice of camera types (only the cameras of the recorder vendor are supported). Servers with software licenses typically support a wider range of analog and IP cameras. Once the initial wiring of the cameras has been completed, users must manually connect and configure the new cameras.

Cloud-based VMS/VSaaS

Advanced cloud systems support a wide range of analog and IP cameras. Once the initial wiring of the cameras has been completed, the cameras are automatically configured. Dashboards show the camera status with alerts for camera or internet problems.

7. BANDWIDTH MANAGEMENT

A traditional local recorder or server with software licenses

Current local recorders and NVRs have little to no advanced bandwidth management techniques. Certainly not if video has to be viewed outside of the client domain.

Cloud-based VMS/VSaaS

Bandwidth management is an essential part of cloud-based video management systems. Not only within a LAN but also for a WAN-environment, it is possible to indicate per camera and per time unit which part of the available bandwidth may be used, so that other data streams can be prioritized without losing essential video data.

8. LIFETIME TECHNOLOGY AND REST-API

A traditional local recorder or server with software licenses

Traditional systems have a shorter lifespan. They can start with robust features, but the core features are fixed at the time of the hardware purchase. You can download firmware updates, but there is a limited possibility for technology updates. This means that these updates are manually and intensive regarding maintenance. The APIs are closed and generally require an NDA. The API-functionality is very limited.

Cloud-based VMS/VSaaS

Rapid technology evolution. The vendor automatically sends technology updates over the internet to your on-site device. Your system is constantly changing with the latest innovations and therefore has a longer service life. APIs for analysis, integration, and applications are accessible and publicly published. Fully functional APIs can be used in other systems.

9. CYBERSECURITY

A traditional local recorder or server with software licenses

Because end-users want remote access to the camera images, this has resulted in traditional Recorders and Servers in most cases being connected to the internet by the installer. This results in the need to also install and configure a firewall. The end-user must then check for attacks on vulnerabilities such as port forwarding and local vendor software.

Cloud-based VMS/VSaaS

Advanced cloud-based video management systems do not have the cybersecurity vulnerabilities that traditional systems do. There are no open ports, no local firewalls, and no local software. No firewall installations are required. Some cloud VMS vendors have established dedicated cybersecurity teams to monitor new vulnerabilities such as Ghost and Heartbleed, and apply security patches directly to the local device via the cloud.

10. REMOTE ACCESS

A traditional local recorder or server with software licenses

In traditional systems, remote video access was usually not built into the original system but added later due to customer requirements. The quality of access to the video can be unpredictable, with jerky streaming and poor image quality. On top, encryption is rare, which causes privacy problems. Browser incompatibility is also common.

Cloud-based VMS/VSaaS

Cloud-based systems are designed for remote access. Advanced systems ensure smooth video access and streaming. The support of universal web browsers and mobile apps are common.

11. REDUNDANCY AND RELIABILITY

A traditional local recorder or server with software licenses

These have highly variable levels. In reality, there is no backup for a local recorder. As soon as the device crashes, all the data is gone. In addition to the hardware costs, a local server also faces additional costs for maintenance updates that must be carried out by IT-personnel.

Cloud-based VMS/VSaaS

Cloud data centers have double and triple redundancy. The shared infrastructure results in full server use and economies of scale. Advanced cloud systems provide several days of on-premise storage as a backup to protect against the loss of the internet, along with alert notifications.

SUMMARY

If we take a look at the established trend in other industries, it is logical that video surveillance is also moving to the cloud.

The main functional considerations are the rapid technological evolution, cybersecurity, flexibility in the storage period, and the easy and secure way of sharing information.

Financial considerations are the lower cost of capital and lower total administrative costs resulting from economies of scale. Furthermore, the payment model "Pay for what you use" ensures better coordination between end-users and suppliers for the continuous growth of the customer's business.

More efficient and effective management comes in the form of easy implementation, superior multi-site integration and management, and instant alerts for system-related alarms (no internet, camera offline, etc.).

WANT TO KNOW HOW TO MOVE TO THE CLOUD?

Learn more about Eagle Eye's Video Management System Platform.

Eagle Eye Networks was created to make video surveillance easier and safer. Camera systems are traditionally complex and challenging to manage. With the Eagle Eye Cloud Security Camera VMS, you can deploy multiple cameras at multiple locations without installing software or purchasing large servers. Learn more about VMS in the cloud, explore our platform or talk to one of our specialists today.

What am I missing in my current camera system?
"and what's not going to come only a True Cloud VMS can fix for you"

1: Sharing

You see an **important video** on your camera system. With Eagle Eye Networks you securely and **instantly** share images, both **live** and **stored**. All you need is your right mouse button. Securing Sharing.

2: Acces

Who had access to the video? What and when? With Eagle Eye Networks this is not a question but an extremely secure arrangement. You decide, you control. No data on the manufacturer's local hardware. Safe in the Cloud.

3: Simple and Secure

Easy to use, both on your mobile and at work. **No installation**. And of course, super secure. No connection between your smartphone and your local recorder. Only our **Cloud**. Safe and Always Present.

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